PROPERTY

# PATENT COOPERATION TREAT

JEINILL & GILCHRIST

JENKENS & GILCHRIST, P.C.

## **PCT**

NOTIFICATION OF TRANSMITTAL OF THE INTERNATIONAL SEARCH REPORT

Attn. STACY, WAYNE 0. 3200 Fountain Place	OR THE DECLARATION			
1445 Ross Avenue DALLAS, Texas 75202-2799 UNITED STATES OF AMERICA	(PCT Rule 44.1)  JUL 1 2000			
	THE THE PARTY OF T			
	Date of mailing (day/month/year) 15/06/2000			
Applicant's or agent's file reference				
32272-26WO	FOR FURTHER ACTION See paragraphs 1 and 4 below			
International application No.	International filing date			
PCT/US 00/05854	(day/month/year) 07/03/2000			
Applicant				
COOPER Thou Housend				
COOPER, Troy, Howard				
1 V The applicant is hereby pottfled that the interns	ational Search Report has been established and is transmitted herewith.			

COOPE	ER, Troy, Howard
1. X	The applicant is hereby notified that the international Search Report has been established and is transmitted herewith.  Filing of amendments and statement under Article 19: The applicant is entitled, if he so wishes, to amend the claims of the international Application (see Rule 46):
	When? The time limit for filing such amendments is normally 2 months from the date of transmittal of the international Search Report; however, for more details, see the notes on the accompanying sheet.
	Where? Directly to the International Bureau of WIPO  34, chemin des Colombettes  1211 Geneva 20, Switzerland Fascimile No.: (41-22) 740.14.35  Action Compared  Action Compared
2.	For more detailed instructions, see the notes on the accompanying sheet. The Applicant is hereby notified that no international Search Report will be established and that the declaration under Article 17(2)(a) to that effect is transmitted herewith.
з. 🗌	With regard to the protest against payment of (an) additional fee(s) under Rule 40.2, the applicant is notified that:  the protest together with the decision thereon has been transmitted to the international Bureau together with the applicant's request to forward the texts of both the protest and the decision thereon to the designated Offices.
	no decision has been made yet on the protest; the applicant will be notified as soon as a decision is made.
4. Furt	ther action(s): The applicant is reminded of the following:
lf 1 pri	orthy after 16 months from the priority date, the international application will be published by the international Bureau. The applicant wishes to avoid or postpone publication, a notice of withdrawal of the international application, or of the forthy claim, must reach the international Bureau as provided in Rules 90 bis.1 and 90 bis.3, respectively, before the empletion of the technical preparations for international publication.
Witt Wi	nin 19 months from the priority date, a demand for international preliminary examination must be filed if the applicant is shes to postpone the entry into the national phase until 30 months from the priority date (in some Offices even later).
be	nin 20 months from the priority date, the applicant must perform the prescribed acts for entry into the national phase store all designated Offices which have not been elected in the demand or in a later election within 19 months from the forfty date or could not be elected because they are not bound by Chapter II.

Name and mailing address of the International Searching Authority	Authorized officer
European Patent Office, P.B. 5818 Patentiaan 2 NL-2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo ni, Fax: (+31-70) 340-3016	Germaine Moet

#### **NOTES TO FORM PCT/ISA/220**

These Notes are intended to give the basic instructions concerning the filing of amendments under article 19. The Notes are based on the requirements of the Patent Cooperation Treaty, the Regulations and the Administrative Instructions under that Treaty. In case of discrepancy between these Notes and those requirements, the latter are applicable. For more detailed information, see also the PCT Applicant's Guide, a publication of WIPO.

In these Notes, "Article", "Rule", and "Section" refer to the provisions of the PCT, the PCT Regulations and the PCT Administrative Instructions respectively.

#### INSTRUCTIONS CONCERNING AMENDMENTS UNDER ARTICLE 19

The applicant has, after having received the international search report, one opportunity to amend the claims of the international application. It should however be emphasized that, since all parts of the international application (claims, description and drawings) may be amended during the international preliminary examination procedure, there is usually no need to file amendments of the claims under Article 19 except where, e.g. the applicant wants the latter to be published for the purposes of provisional protection or has another reason for amending the claims before international poulication. Furthermore, it should be emphasized that provisional protection is available in some States only.

#### What parts of the international application may be amended?

Under Article 19, only the claims may be amended.

During the international phase, the claims may also be amended (or further amended) under Article 34 before the International Preliminary Examining Authority. The description and drawings may only be amended under Article 34 before the International Examining Authority.

Upon entry into the national phase, all parts of the international application may be amended under Article 28 or, where applicable, Article 41.

#### When?

Within 2 months from the date of transmittal of the international search report or 16 months from the priority date, whichever time limit expires later. It should be noted, however, that the amendments will be considered as having been received on time if they are received by the International Bureau after the expiration of the applicable time limit but before the completion of the technical preparations for international publication (Rule 46.1).

#### Where not to file the amendments?

The amendments may only be filed with the International Bureau and not with the receiving Office or the International Searching Authority (Rule 46.2).

Where a demand for international preliminary examination has been is filed, see below.

#### How?

Either by cancelling one or more entire claims, by adding one or more new claims or by amending the text of one or more of the claims as filed.

A replacement sheet must be submitted for each sheet of the claims which, on account of an amendment or amendments, differs from the sheet originally filed.

All the claims appearing on a replacement sheet must be numbered in Arabic numerals. Where a claim is cancelled, no renumbering of the other claims is required. In all cases where claims are renumbered, they must be renumbered consecutively (Administrative Instructions, Section 205(b)).

The amendments must be made in the language in which the international application is to be published.

#### What documents must/may accompany the amendments?

#### Letter (Section 205(b)):

The amendments must be submitted with a letter.

The letter will not be published with the international application and the amended claims. It should not be confused with the "Statement under Article 19(1)" (see below, under "Statement under Article 19(1)").

The letter must be in English or French, at the choice of the applicant. However, if the language of the international application is English, the letter must be in English; if the language of the International application is French, the letter must be in French.

Notes to Form PCT/ISA/220 (first sheet) (January 1994)

#### NOTES TO FORM PCT/ISA/220 (continued)

The letter must indicate the differences between the claims as filed and the claims as amended. It must, in particular, indicate, in connection with each claim appearing in the international application (it being understood that identical indications concerning several claims may be grouped), whether

- (i) the claim is unchanged;
- (ii) the claim is cancelled;
- (iii) the claim is new;
- (iv) the claim replaces one or more claims as filed;
- (v) the claim is the result of the division of a claim as filed.

### The following examples illustrate the manner in which amendments must be explained in the accompanying letter:

- [Where originally there were 48 claims and after amendment of some claims there are 51]:
   "Claims 1 to 29, 31, 32, 34, 35, 37 to 48 replaced by amended claims bearing the same numbers; claims 30, 33 and 36 unchanged; new claims 49 to 51 added."
- 2. [Where originally there were 15 claims and after amendment of all claims there are 11]: "Claims 1 to 15 replaced by amended claims 1 to 11."
- 3. [Where originally there were 14 claims and the amendments consist in cancelling some claims and in adding new claims]:
  - "Claims 1 to 6 and 14 unchanged; claims 7 to 13 cancelled; new claims 15, 16 and 17 added." or "Claims 7 to 13 cancelled; new claims 15, 16 and 17 added; all other claims unchanged."
- 4. [Where various kinds of amendments are made]:
  "Claims 1-10 unchanged; claims 11 to 13, 18 and 19 cancelled; claims 14, 15 and 16 replaced by amended claim 14; claim 17 subdivided into amended claims 15, 16 and 17; new claims 20 and 21 added."

#### "Statement under article 19(1)" (Rule 46.4)

The amendments may be accompanied by a statement explaining the amendments and indicating any impact that such amendments might have on the description and the drawings (which cannot be amended under Article 19(1)).

The statement will be published with the international application and the amended claims.

#### It must be in the language in which the international appplication is to be published.

It must be brief, not exceeding 500 words if in English or if translated into English.

It should not be confused with and does not replace the letter indicating the differences between the claims as filed and as amended. It must be filed on a separate sheet and must be identified as such by a heading, preferably by using the words "Statement under Article 19(1)."

It may not contain any disparaging comments on the international search report or the relevance of citations contained in that report. Reference to citations, relevant to a given claim, contained in the international search report may be made only in connection with an amendment of that claim.

#### Consequence if a demand for international preliminary examination has already been filed

If, at the time of filing any amendments under Article 19, a demand for international preliminary examination has already been submitted, the applicant must preferably, at the same time of filing the amendments with the International Bureau, also file a copy of such amendments with the International Preliminary Examining Authority (see Rule 62.2(a), first sentence).

#### Consequence with regard to translation of the international application for entry into the national phase

The applicant's attention is drawn to the fact that, where upon entry into the national phase, a translation of the claims as amended under Article 19 may have to be furnished to the designated/elected Offices, instead of, or in addition to, the translation of the claims as filed.

For further details on the requirements of each designated/elected Office, see Volume II of the PCT Applicant's Guide.



## **PCT**

#### INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference 32272-26W0		on of Transmittal of International Search Report SA/220) as well as, where applicable, Item 5 below.
International application No.	International filing date (day/month/year)	(Earliest) Priority Date (day/month/year)
PCT/US 00/05854	07/03/2000	12/03/1999
Applicant	, <u>, , , , , , , , , , , , , , , , , , </u>	
COOPER, Troy, Howard		
This international Search Report has been according to Article 18. A copy is being to	• • • • • • • • • • • • • • • • • • • •	Authority and is transmitted to the applicant
. G	s of a total of sheets. y a copy of each prior art document cited in	this report.
1. Basis of the report		
	e international search was carried out on the niess otherwise indicated under this item.	basis of the international application in the
the International search Authority (Rule 23.1(b)).		of the International application furnished to this
b. With regard to any nucleotide a was carried out on the basis of t	nd/or amino acid sequence disclosed in the sequence listing:	ne international application, the international search
	ional application in written form. ternational application in computer readable	form.
	to this Authority in written form.	
	to this Authority in computer readble form.	
the statement that the su	ubsequently furnished written sequence listings filed has been furnished.	ng does not go beyond the disclosure in the
i — — ''		rm is identical to the written sequence listing has been
2. Certain claims were to	und unsearchable (See Box I).	
3. Unity of invention is la	cking (see Box II).	
4. With regard to the title,		
X the text is approved as	submitted by the applicant.	•
the text has been estable	ished by this Authority to read as follows:	
5. With regard to the abstract,		
the text has been estable	submitted by the applicant. Ished, according to Rule 38.2(b), by this Au ne date of mailing of this international search	thority as it appears in Box III. The applicant may, in report, submit comments to this Authority.
6. The figure of the drawings to be pu	blished with the abstract is Figure No.	<u>1</u>
as suggested by the app	ollcant.	None of the figures.
I 🔀 "	alied to suggest a figure.	
because this figure bette	er characterizes the invention.	



International application No.

PCT/US 00/05854

#### Box III TEXT OF THE ABSTRACT (Continuation of Item 5 of the first sheet)

line 2: after "human" insert "(11)";
line 4: after "enclosure" insert "(3)";
line 4: after "mount" insert "(6)";
line 5: after "nozzle" insert "(7)";
line 7: after "connection" insert "(4)".

The abstract is modified as follows:

A. CLASSIFICATION OF SUBJECT MATTER IPC 7 B05B15/12 B05B5/00

According to International Patent Classification (IPC) or to both national classification and IPC

#### **B. FIELDS SEARCHED**

Minimum documentation searched (classification system followed by classification symbols) B05D B05B A61H A61M A47K IPC 7

Documentation searched other than minimum documentation to the extent that such documents are included. In the fields searched

Electronic data base consulted during the International search (name of data base and, where practical, search terms used)

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US 5 664 593 A (MCCLAIN EDWARD T) 9 September 1997 (1997-09)	1,2, 5-10, 13-15, 22-24, 31-34,36 3,4, 17-21, 25-30,
	column 1, line 12 - line 14 column 2, line 5 - line 50 figures	37-40

Special categories of cited documents:	
"A" document defining the general state of the art which is not considered to be of particular relevance	"T" later document published after the International filing dat or priority date and not in conflict with the application bu- cited to understand the principle or theory underlying the invention
E earlier document but published on or after the International	

filing date

Further documents are listed in the continuation of box C.

"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

Petent family members are listed in annex.

- "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- "&" document member of the same patent family

Authorized officer

Date of the actual completion of the international search Date of mailing of the international search report

15/06/2000 6 June 2000

Name and mailing address of the ISA European Patent Office, P.B. 5818 Patentiaan 2

NL - 2280 HV RIJSWIJK Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Barré, V Fex: (+31-70) 340-3016

## INTERNATIONAL SEARCH REPORT

PCT/US 00/05854

(Continu	ation) DOCUMENTS CONSIDERED TO BE RELEVANT	
ategory °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US 5 494 674 A (BARNETT PHILIP J ET AL) 27 February 1996 (1996-02-27) cited in the application	1,2, 5-10, 13-15, 22-24, 31-34,36
	abstract column 2, line 64 -column 3, line 48 column 6, line 54 - line 61	
A	US 5 527 564 A (NAPADOW STANLEY C ET AL) 18 June 1996 (1996-06-18) cited in the application abstract column 1, line 10 - line 27 column 1, line 38 - line 50	1,11,12, 14,16, 31,35
A	US 4 688 518 A (MISSIER GABRIELE) 25 August 1987 (1987-08-25) column 3, line 21 - line 46	1,17-21, 31,33, 37-40
A	figure 7  US 5 765 761 A (COOPER STEVEN C ET AL) 16 June 1998 (1998-06-16) cited in the application column 16, line 28 - line 61 figures 4-6	25-30
A	US 5 863 497 A (DIRKSING ROBERT S) 26 January 1999 (1999-01-26) abstract column 3, line 65 - line 67 figures	1,31

2

### INTERNATIONAL SEARCH REPORT

Internation on patent family members

PCT/US 00/05854

	tent document In search report	t	Publication date		Patent family member(s)	Publication date
US	5664593	A	09-09-1997	US	5460192 A	24-10-1995
US	5494674	Α	27-02-1996	AU	1966992 A	21-01-1993
				BR	9202673 A	23-03-1993
				CA	2073520 A	16-01-1993
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				AU	6637196 A	26-02-1997
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				EP	0837735 A	29-04-1998
				JP	11501253 T	02-02-1999
				WO	9704876 A	13-02-1997
US	5863497	Α	26-01-1999	AU	2061997 A	01-10-1997
				CA	2248694 A	18-09-1997
				CN	1213281 A	07-04-1999
				EP	0963181 A	15-12-1999
				JP	11506040 T	02-06-1999
				WO	9733527 A	18-09-1997